BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF RCC DRAIN FROM MASJID CIRCLE TO ESWARAPPA HOUSE IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 20.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	Removing B.S. slab of Drain and stacking.(P No.25 / I N 5.32)								
	for Drain	Sqm							
	from Masjid Circle		1	145.00	1.20		174.00		
			1	150.00	1.20		180.00		
							354.00	65.72	**23264.88**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	from Masjid Circle		1	165.00	0.60	0.65	64.35		
			1	170.00	0.60	0.60	61.20		
	debris		8	10.00	3.00	0.60	144.00		
			6	5.00	3.00	0.60	54.00		
							323.55	86.92	**28122.97**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
		Cum							
			1	110.00	1.00	0.90	99.00		
							99.00	200.34	**19833.66**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			Qty Vide Item No.2+3			422.55	100.00	42255.00
Average Weight of Earth 1.28 Tonne/Km								
Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
Add loading and unloading Item No 17.1)	68.00							
Total	**100.00**							
Refixing stone slabs of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)								
	Sqm							
			90% of Qty Vide Item No.1			318.60	80.56	25666.42
Basic Rate	76.00							
Area Weightage @ 6%	4.56							
Total	**80.56**							
Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Sqm							
for Drain covering slab			*10% of Qty Vide Item No.1*			35.40		
for New Drain		1	110.00	0.90		99.00		
						134.40	2100.00	**282240.00**
Data Rate	**2100.00**							
KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	Cum							
		1	110.00	1.00	0.15	16.50		
						16.50	5159.02	**85123.83**
Basic Rate	4867.00							
Area Weightage @ 6%	292.02							
Total	**5159.02**							
KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
	Sqm							
		2	165.00	0.45	0.20	29.70		
		2	170.00	0.45	0.20	30.60		
						60.30	4438.22	**267625.00**

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Basic Rate	4187.00							
Area Weightage @ 6%	251.22							
Total	**4438.22**							
KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1)								
	Sqm							
		2	165.00		0.80	264.00		
		2	170.00		0.80	272.00		
						536.00	102.82	**55112.00**
Basic Rate	97.00							
Area Weightage @ 6%	5.82							
Total	**102.82**							
KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1.4.2.(P No. 13 / Item No.4.7)								
	Cum							
coping		2	165.00	0.45	0.10	14.85		
		2	170.00	0.45	0.10	15.30		
vent		2	165.00	0.60	0.10	19.80		
						49.95	5598.92	**279666.00**
Basic Rate	5282.00							
Area Weightage @ 6%	316.92							
Total	**5598.92**							
KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
	tonne	No.of Bars	Width/Length	Rmtr	Kg/Rmtr	Total in Kg		
10mm dia main bar spacing at 150mm c/c	2	733	1.95	2860.00	0.617	1764.62		
8mm dia dist bar spacing at 150mm c/c	2	13	110.00	2860.00	0.395	1129.70		
					in Kg	2894.32		
					in Qtl	28.943		
					in tonne	**2.8943**	64243.42	**185941.02**
Basic Rate	60607.00							
Area Weightage @ 6%	3636.42							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Total	**64243.42**							
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
	Sqm							
		2x2	110.00		0.60	264.00		
						264.00	310.58	**81993.12**
Basic Rate	293.00							
Area Weightage @ 6%	17.58							
Total	**310.58**							
Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
	Cum							
bed		1	110.00	1.00	0.15	16.50		
Side wall		2	110.00	0.15	0.60	19.80		
						36.30	6371.66	**231291.26**
Basic Rate	6011.00							
Area Weightage @ 6%	360.66							
Total	**6371.66**							
5.29(b)Providing and fixing **pre cast solid cement concrete kerb stones** made out of No.272.21 C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete (P.No.25 /It.No.5.30)								
	No							
		2	145.00		290.00 / 0.45	644.44		
					Say	**640.00**	331.78	**212339.00**
Basic Rate	313.00							
Area Weightage @ 6%	18.78							
Total	**331.78**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 15-19.2 :Providing and applying **ready mix priming coat** over concrete/masonry/asbestos cement sheet/plastered surfaces including preparing the surface after throughly cleaning of oil,grease,dirt and other foreign matter and sand papering including cost of materials, labour, complete as per specifications. (Page no.121 / It no.15.80)								
	Sqm							
		2	170.00		0.40	136.00		
						136.00	27.56	**3748.00**
Basic Rate	26.00							
Area Weightage @ 6%	1.56							
Total	**27.56**							
KSRB 800-1.Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.182 & Item No.24.1)								
	Sqm							
			Qty Vide Item No.15			**136.00**	63.60	**8650.00**
Basic Rate	60.00							
Area Weightage @ 6%	3.60							
Total	**63.60**							
					Sub-Total Amount (A)			1832872.00
9% for KRIDL Charges on Sub-Total Amount (A)								164958.00
Miscellaneous and unforeseen charges								2170.00
					Grand Total Amount			2000000.00

(Rupees Twenty Lakhs Only)

TIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

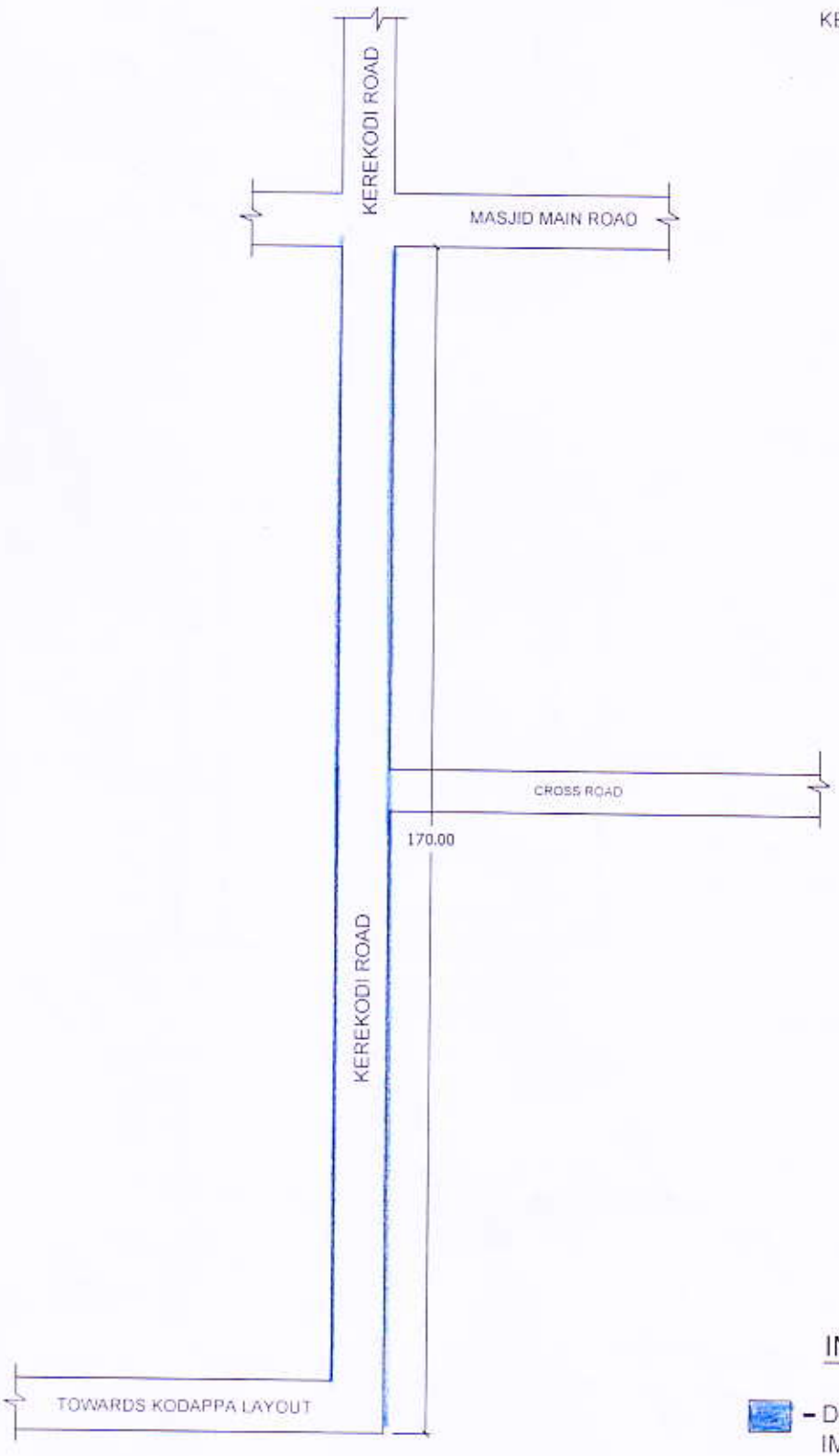
Administrative Approval
Accorded For 20.00 lakhs.
Head of A/C..... P.3167
CER NO :.....142 **Dt:**.. 10.11.17

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 lacs
Rupees Twenty Lacs only
Under P.3167 - Y
EE/YNK/TS/25/17-18
Dated 10.11.2017 20.00 lacs

NAME OF WORK :CONSTRUCTION OF RCC DRAIN FROM MASJID CIRCLE TO ESWARAPPA HOUSE IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



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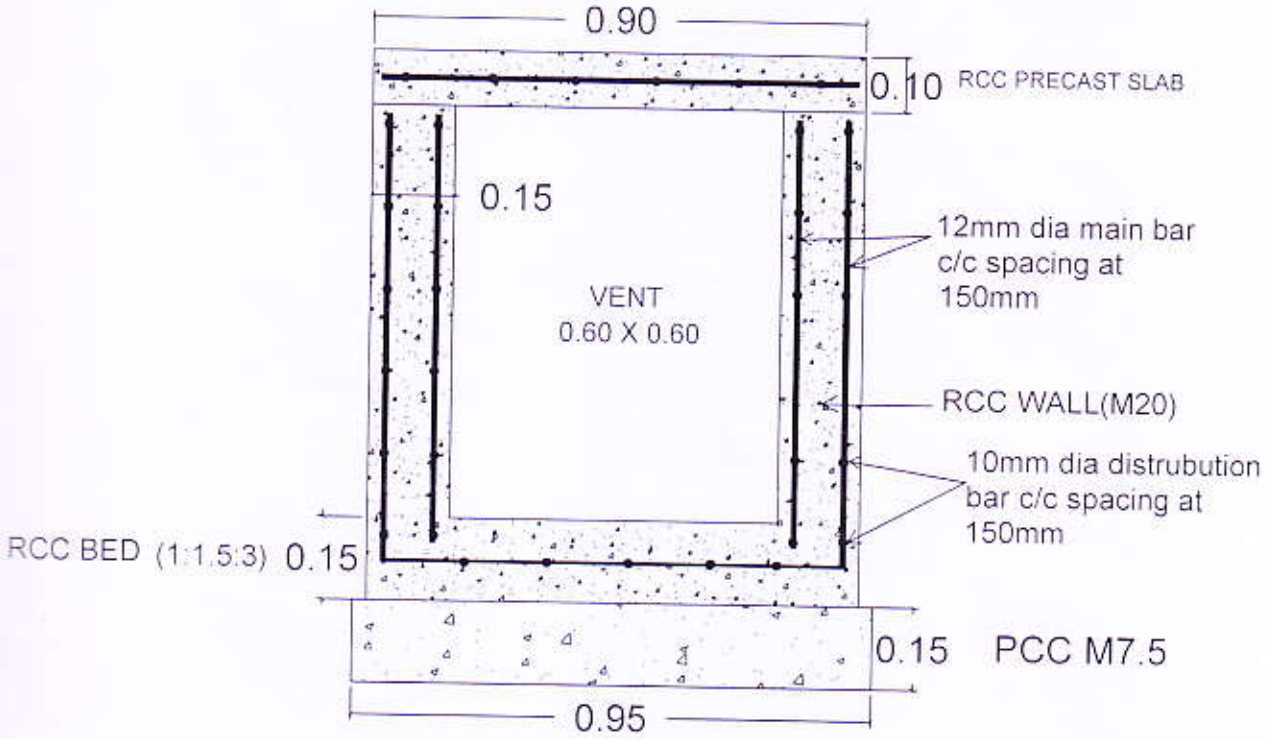
- DRAIN IMPROVEMENTS

Assistant Engineer
Ward No.02
B.B.M.P

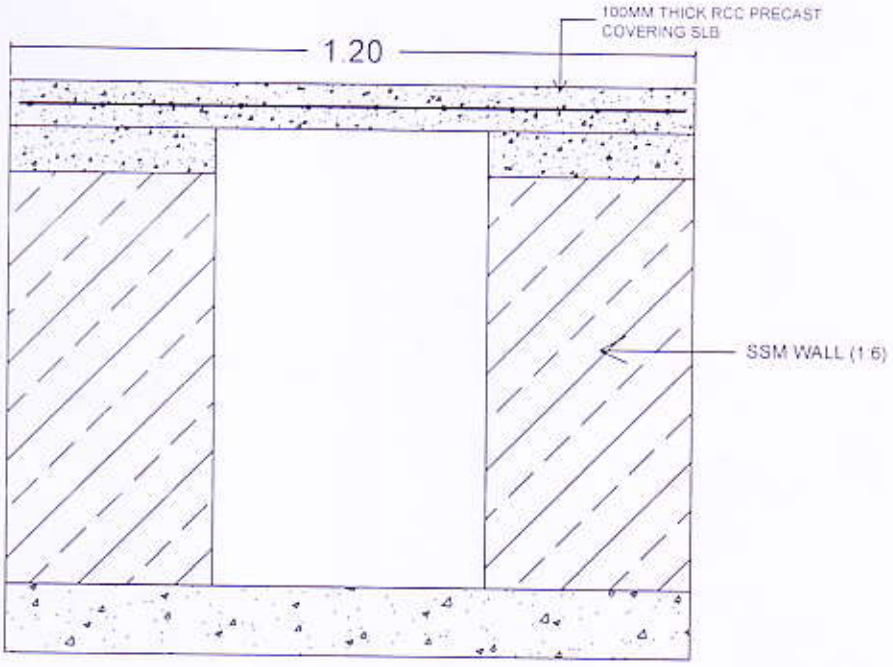
Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

AME OF WORK : CONSTRUCTION OF RCC DRAIN FROM MASJID CIRCLE TO ESWARAPPA HOUSE IN WARD NO.02 OF YELAHANKA SUB-DIVISION



CROSS SECTION OF RCC DRAIN

NAME OF WORK : CONSTRUCTION OF RCC DRAIN FROM MASJID CIRCLE TO ESWARAPPA HOUSE IN WARD NO.02 OF YELAHANKA SUB-DIVISION



TYPICAL CROSS SECTION OF SSM DRAIN

BELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD